

1644

P#13

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TECH CENTER 1600/290C

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/661,992A

Source: 1600

Date Processed by STIC: 11/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

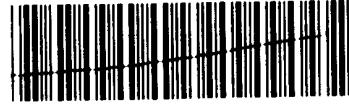
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>01/661992A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/11/2002
TIME: 10:17:11

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

3 <110> APPLICANT: Scheitlinger, Friedrich
4 Kerschbaumer, Randolph
5 Falchner, Falke-Guenther
6 Börner, Friedrich

W--> 8 <120> *<- mandatory number identific and copies needed*

W--> 10 <130> FILE REFERENCE:

12 <140> CURRENT APPLICATION NUMBER: US 09/661,992A

C--> 14 <141> CURRENT FILING DATE: 2000-09-14 *<- writing it is mandatory number identific and copies*

14 <146> NUMBER OF SEQ ID NOS: 106

16 <170> SOFTWARE: PatentIn Ver. 2.1

Does N. comply
with
Reqd
Correc

and copies

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
19 <211> LENGTH: 26
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of the artificial sequence:primer
26 <400> SEQUENCE: 1

E--> 27 ctcaattttc ttgtccacct tggtgc ~ 26 (genuine) acccctt 16)
28 26
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 26
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Description of the artificial sequence:primer
39 <400> SEQUENCE: 2

E--> 40 ctcgattctc ttgatcaact cagtct 24
41 26
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 24
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of the artificial sequence:primer
52 <400> SEQUENCE: 3

E--> 53 tggaatgggc acatgcagat ctct 24
54 24
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 24

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:15:23

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

761 <210> TYPE: DNA

762 <211> ORGANISM: Artificial Sequence

763 <212> FEATURE:

764 <223> OTHER INFORMATION: Description of the artificial sequence:primer

765 <400> SEQUENCE: 4

E--> 66 ctcattcctg ttgaagctct tgac

766 <210> SEQ ID NO: 50

767 <211> LENGTH: 57

768 <212> TYPE: DNA

769 <213> ORGANISM: Artificial Sequence

770 <220> FEATURE:

771 <223> OTHER INFORMATION: Description of the artificial sequence:primer

772 <400> SEQUENCE: 50

E--> 772 catggcatga ctgcggccca agccggccat ggccsaggtt marctgcags agtcwgg

773 <210> SEQ ID NO: 51

774 <211> LENGTH: 56

775 <212> TYPE: DNA

776 <213> ORGANISM: Artificial Sequence

777 <220> FEATURE:

778 <223> OTHER INFORMATION: Description of the artificial sequence:primer

779 <400> SEQUENCE: 51

E--> 785 gtcttcgcaa ctgcggccca gccggccatg gccgaggtgc agcttcagga gtcagg

780 <210> SEQ ID NO: 52

781 <211> LENGTH: 56

782 <212> TYPE: DNA

783 <213> ORGANISM: Artificial Sequence

784 <220> FEATURE:

785 <223> OTHER INFORMATION: Description of the artificial sequence:primer

786 <400> SEQUENCE: 52

E--> 798 gtcttcgcaa ctgcggccca gccggccatg gccgatgtgc agcttcagga gtcrgg

799 <210> SEQ ID NO: 53

800 <211> LENGTH: 56

801 <212> TYPE: DNA

802 <213> ORGANISM: Artificial Sequence

803 <220> FEATURE:

804 <223> OTHER INFORMATION: Description of the artificial sequence:primer

805 <400> SEQUENCE: 53

E--> 811 gtcttcgcaa ctgcggccca gccggccatg gcccaggtgc agctgaagsa gtcagg

812 <210> SEQ ID NO: 54

813 <211> LENGTH: 56

814 <212> TYPE: DNA

815 <213> ORGANISM: Artificial Sequence

816 <220> FEATURE:

817 <223> OTHER INFORMATION: Description of the artificial sequence:primer

818 <400> SEQUENCE: 54

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

PAGE: 01 OF 11
TIME: 14:57:13

Input Set: A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

824 <400> SEQUENCE: 54
E--> 824 gtcctcgcaa ctgcggccca gccggccatg gccgaggtyc agctgcarca rtctgg
825 54
826 <210> SEQ ID NO: 55
827 <211> LENGTH: 55
828 <212> TYPE: DNA
829 <213> ORGANISM: Artificial Sequence
830 <220> FEATURE:
831 <223> OTHER INFORMATION: Description of the artificial sequence:primer
832 <400> SEQUENCE: 55
E--> 837 gtcctcgcaa ctgcggccca gccggccatg gcccaggtyc arctgcagca gyctgg
833 55
834 <210> SEQ ID NO: 56
835 <211> LENGTH: 56
836 <212> TYPE: DNA
837 <213> ORGANISM: Artificial Sequence
838 <220> FEATURE:
839 <223> OTHER INFORMATION: Description of the artificial sequence:primer
840 <400> SEQUENCE: 56
E--> 850 gtcctcgcaa ctgcggccca gccggccatg gccgargtga agctggtgaa rtctgg
841 56
842 <210> SEQ ID NO: 57
843 <211> LENGTH: 56
844 <212> TYPE: DNA
845 <213> ORGANISM: Artificial Sequence
846 <220> FEATURE:
847 <223> OTHER INFORMATION: Description of the artificial sequence:primer
848 <400> SEQUENCE: 57
E--> 863 gtcctcgcaa ctgcggccca gccggccatg gccgaggttc agttcagca gtctgg
849 56
850 <210> SEQ ID NO: 58
851 <211> LENGTH: 56
852 <212> TYPE: DNA
853 <213> ORGANISM: Artificial Sequence
854 <220> FEATURE:
855 <223> OTHER INFORMATION: Description of the artificial sequence:primer
856 <400> SEQUENCE: 58
E--> 876 gtcctcgcaa ctgcggccca gccggccatg gccgaagtgc agctgktgga gwctgg
857 56
858 <210> SEQ ID NO: 59
859 <211> LENGTH: 56
860 <212> TYPE: DNA
861 <213> ORGANISM: Artificial Sequence
862 <220> FEATURE:
863 <223> OTHER INFORMATION: Description of the artificial sequence:primer
864 <400> SEQUENCE: 59
E--> 889 gtcctcgcaa ctgcggccca gccggccatg gcccagatcc agttgctgca gtctgg
865 56
866 <210> SEQ ID NO: 60

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/2002
TIME: 1:37:00

Input Set: A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

934 <210> LENGTH: 65
935 <211> TYPE: DNA
936 <213> ORGANISM: Artificial Sequence
937 <220> FEATURE:
938 <223> OTHER INFORMATION: Description of the artificial sequence:primer
939 <400> SEQUENCE: 65
M, NC
E--> 902 accgcccagag gcgcgcccac ctgaaccgcc tccaccttag gagacggtag ccgtggtccc
903 66
E--> 904 ttggcccc
905 66
906 <210> SEQ ID NO: 61
907 <211> LENGTH: 60
908 <212> TYPE: DNA
909 <213> ORGANISM: Artificial Sequence
910 <220> FEATURE:
911 <223> OTHER INFORMATION: Description of the artificial sequence:primer
912 <400> SEQUENCE: 61
J
E--> 917 accgcccagag gcgcgcccac ctgaaccgcc tccaccttag gagacggtag ccgtggtccc
918 66
919 <210> SEQ ID NO: 62
920 <211> LENGTH: 60
921 <212> TYPE: DNA
922 <213> ORGANISM: Artificial Sequence
923 <220> FEATURE:
924 <223> OTHER INFORMATION: Description of the artificial sequence:primer
925 <400> SEQUENCE: 62
E--> 930 accgcccagag gcgcgcccac ctgaaccgcc tccaccttag gagactgtga gagtggtgcc
931 60
932 <210> SEQ ID NO: 63
933 <211> LENGTH: 60
934 <212> TYPE: DNA
935 <213> ORGANISM: Artificial Sequence
936 <220> FEATURE:
937 <223> OTHER INFORMATION: Description of the artificial sequence:primer
938 <400> SEQUENCE: 63
E--> 943 accgcccagag gcgcgcccac ctgaaccgcc tccacctgca gagacagtga ccagagtccc
944 60
945 <210> SEQ ID NO: 64
946 <211> LENGTH: 60
947 <212> TYPE: DNA
948 <213> ORGANISM: Artificial Sequence
949 <220> FEATURE:
950 <223> OTHER INFORMATION: Description of the artificial sequence:primer
951 <400> SEQUENCE: 64
E--> 956 accgcccagag gcgcgcccac ctgaaccgcc tccaccttag gagacggtag ctgaggttcc
957 60
958 <210> SEQ ID NO: 65
959 <211> LENGTH: 60
960 <212> TYPE: DNA

Input Set: A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

E--> ORGANISM: Artificial Sequence
E--> FEATURE:
E--> OTHER INFORMATION: Description of the artificial sequence:
E--> <400> SEQUENCE: 61
E--> 969 ggtcagatg ggcgcgcctc tggcggtggc ggatcggaca tttagctcac ccagtctcca
1141 61
1142 <210> SEQ ID NO: 14
1143 <211> LENGTH: 74
1144 <212> TYPE: DNA
1145 <213> ORGANISM: Artificial Sequence
1146 <220> FEATURE:
1147 <223> OTHER INFORMATION: Description of the artificial sequence:mychis
1148 <400> SEQUENCE: 79
E--> 1151 ggccgcagaa caaaaactca tctcagaaga ggatctgaat ggggcggcac atcaccatca
1152 60
E--> 1153 ccatcaactaa taag
1154 74
1155 <210> SEQ ID NO: 80
1156 <211> LENGTH: 74
1157 <212> TYPE: DNA
1158 <213> ORGANISM: Artificial Sequence
1159 <220> FEATURE:
1160 <223> OTHER INFORMATION: Description of the artificial sequence:mychis
1161 <400> SEQUENCE: 80
E--> 1166 aattcttatt agtgtggtg atggatgtt gcccgcac tcagatcctc ttctgagatg
1167 60
E--> 1168 agttttgtt ctgc
1169 74
1170 <210> SEQ ID NO: 81
1171 <211> LENGTH: 726
1172 <212> TYPE: DNA
1173 <213> ORGANISM: Artificial Sequence
1174 <220> FEATURE:
1175 <223> OTHER INFORMATION: Description of the artificial sequence:scFv region
1176 <400> SEQUENCE: 81
E--> 1181 gaggtgaagg tgggtggatc tggacctgag ctgaagaagg ctggagagac agtcaagatc
1182 60
E--> 1183 tcctgcaagg cttctggta tatcttcaca aactatggaa tgaactgggt gaagcaggct
1184 120
E--> 1185 ccagggaaagg gtttaaaggatg gatgggctgg ataaacaccc acactggaga gccaacata
1186 130
E--> 1187 gctgatgact tcaaggggacg gtttgccttc tctttggaaa cctctgccag cactgcctat
1188 240
E--> 1189 ttgcagatca acaacctcaa aaatgaggac acggctacat atttctgtgc attatatgg
1190 300
E--> 1191 aactcccccta aggggttgc ttactggggc caagggactc tggtaactgt ctctgcagg
1192 360
E--> 1193 ggaggcggtt caggtggggcg cgccctctggc ggtggcggat cggatattca gatgacacag
1194 420

RAW SEQUENCE LISTING
PATENT APPLICATION NO: US/09/661,992A

DATE: 11/21/02
TIME: 11:15:00

Input Set : A:\237 sequence listing.asc
Output File: N:\CRF4\11212002\I661992A.raw

E--> 1195 tctcccaa at tcctgctt gt atc agc agga gacagg gtt a ccata acct g caagg ccagt
1196 460
E--> 1197 cagagtgt ga gtaat gatgt agcttgg tac caacaga aagc cggggc agtc tcctaa acta
1198 541
E--> 1199 ctgatgt tact atgc atccaa tcgta cact ggagtccctg atcgcttc ac tggc agtg ga
1200 601
E--> 1201 tatgggacgg atttc acttt caccatc a gactgtgcagg ctgaagac ct ggc agt ttat
1202 660
E--> 1203 ttctgtc a ggc aggattatgg ctctccccc acgtt cggag ggggca ccaa gctggaa att
1204 720
E--> 1205 aaacgg
1206 720
1267 <210> SEQ ID NO: 83
1268 <211> LENGTH: 747
1269 <212> TYPE: DNA
1270 <213> ORGANISM: Artificial Sequence
1272 <214> FEATURE:
1273 <215> OTHER INFORMATION: Description of the artificial sequence: scFv region
1275 <400> SEQUENCE: 83
E--> 1276 gaagtgc a gtc tgg tgg a ggtc tgggg gaggc ct a gtc a a gtc ctggagg gtc cctgaa aactc
1277 60
E--> 1278 tcctgtgc a gtc cctctggatt cactt c a g t a c t a t a c c a t a t a c c a t a t a c
1279 120
E--> 1280 ccggaga a g a ggctgg a g t g gtc a acc c a t a c c a t a t a c c a t a t a c
1281 180
E--> 1282 cc a g a c a g t g tg a g g g c c g a t t c a c c a t a c t c t c a c c c t g t a c
1283 240
E--> 1284 ctgca a a t g a g c a g t c t g a a g t c t g a g g a c a c a g c c a t g t a c
1285 300
E--> 1286 ggacacgggt acggtagtag ct t g a c t a c t c t g g c a a g g c a c c a c t c t c
1287 360
E--> 1288 tcagg tggag g c g g t t c a g g t g g g c g c c t c t g c g g t g g g a t c g a
1289 420
E--> 1290 accc a g t c t c a c t c t c c t c a c t g t c a g t c t g g a g a t c a a g c c t c c a t
1291 480
E--> 1292 tct a g t c a g a g c a t t g t a c a t g t a a a c a c c t a t t a g a a t g g t a
1293 540
E--> 1294 ccaggcc a g t c t c c a a g c a t t c a c a g t t c c a a a g t t c c a
1295 600
E--> 1296 gaca a a t t c a g t g g a t t c a c a g g g a c a t t c a c a t g a a t c a g
1297 660
E--> 1298 gctg a g g a t c t a g t t a t t a c t g c t t c a a g g t t c a c a t g t c g g t
1299 720
E--> 1300 ggaggcc a c a g t g g a a a t c a a a c a g g
1301 747
1457 <210> SEQ ID NO: 87
1458 <211> LENGTH: 747
1459 <212> TYPE: DNA
1460 <213> ORGANISM: Artificial Sequence

J. S. A. M.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 10/12/2002
TIME: 10:15:46

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

1462 <120> FEATURE:

1463 <123> OTHER INFORMATION: Description of the artificial sequence:scFv region

1465 <124> SEQUENCE: 89

E--> 1466 gaggtgcagc ttcaaggagtc agggggaggc ttagtgaagc ctggagggtc cctgaaactc
1467 60
E--> 1468 tcctgtcag cctctggatt catttttagt agttatacca tgtcttggt tcgccagact
1469 120
E--> 1470 ccggagaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagttc cacctactat
1471 180
E--> 1472 ccagacagtg tgaaggccg attcaccatc tccagagaca atgccaagaa caccctgtac
1473 240
E--> 1474 ctgcaaataa gcagtctgaa gtctgaggac acagccatgt atcactgtac aagagagggg
1475 300
E--> 1476 ggtggttatt acgtcaactg gtacttcgat gtctgggcg caggcaccac tctcacagtc
1477 360
E--> 1478 tcctcaggtg gaggcggttc aggtggcgc gcctctggcg gtggcgatc ggacatttag
1479 420
E--> 1480 ctcacncagt ctccagcttc tttggctgtg tctctagggc agagggccac catatcctgc
1481 480
E--> 1482 agagccagtg aaagtgtta tagttatggc aagagttta tgcactggta ccagcagaaa
1483 540
E--> 1484 ccagggcagc cacccaaact cctcatctat cgtgcattca acctagaatc tggatccct
1485 600
E--> 1486 gccagggtca gtggcagtgg gtctaggaca gacttcaccc tcaccattaa tcttgtggag
1487 660
E--> 1488 gctgatgatg ttgcnaaccta ttactgtcag caaagtaatg aggatcccct cacgttcgg
1489 720
E--> 1490 gctgggacca gactggaaat aaaacgg
1491 747
1552 <210> SEQ ID NO: 89
1553 <311> LENGTH: 2199
1554 <12> TYPE: DNA
1555 <13> ORGANISM: Artificial Sequence
1557 <120> FEATURE:
1558 <123> OTHER INFORMATION: Description of the artificial sequence:scFv region
1560 <400> SEQUENCE: 89
E--> 1561 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgccgc ccagccggcc
1562 60
E--> 1563 atggcggagg tgaagctggg ggagtctggg ggaggcttag tgaaggctgg agggccctgg
1564 120
E--> 1565 aaactctcct gtgcagcctc tggattcaact ttcaagtagtgc ataccatgtc ttgggttcgc
1566 180
E--> 1567 cagactccgg agaagaggct ggagtgggtc gcaaccattaa gtatggngg tagttccacc
1568 240
E--> 1569 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1570 300
E--> 1571 ctgtacactgc aaatgagcag tctgaggtct gaggacacag ccatgttatta ctgtacaaga
1572 360
E--> 1573 gaggggggtg gtttcaccgt caactggta ttcgatgtct ggggcgcagg aacctcagtc

Same

Input file: A:\237 sequence listing.asc
Output file: N:\CRF4\11212002\I661992A.raw

1574 420
E--> 1575 accgtctcct caggtggagg cggttcaggt gggcgccct ctggcggtgg cggatcgac
1576 430
E--> 1577 atttgtctga cacagtctcc agcttcttg gctgtgtctc tagggcagag ggccaccata
1578 440
E--> 1579 tcctgcagag ccagtgaaag tggatgtatg tttgtata attttatgca ctggatcag
1580 450
E--> 1581 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctgg
1582 460
E--> 1583 atccctgcca ggttcagtgg cagtgggtct aggacagact tcaccctcac cattaatcct
1584 470
E--> 1585 gtggaggctg atgatgttgc aacatttttac tgtcagcaaa gtaatgagga tccgctcag
1586 480
E--> 1587 ttcgggtactg ggaccagact gaaaataaaa cggcggccg cagccccggc accagaaatg
1588 490
E--> 1589 cctgttctgg aaaaccggc tgctcaggc gatattactg caccggcgg tgctcggcgt
1590 500
E--> 1591 ttaacgggtg atcagactgc cgctctcggt gattctctta gcataaacc tgcaaaaaat
1592 510
E--> 1593 attattttgc tgattggcga tggatgggg gactcgaaa ttactgccgc acgttaattat
1594 520
E--> 1595 gccgaaggtg cggcggctt tttaaaggt atagatgcct taccgcttac cggcaatac
1596 530
E--> 1597 actcaatcg cgctgaataa aaaaacggc aaaccggact acgtcaccga ctggctgca
1598 540
E--> 1599 tcagcaaccg cctggtaac cgggtcaaa acctataacg gcgcgtggg cgtcgatatt
1600 550
E--> 1601 cacgaaaaag atcacccaaac gattctggaa atggcaaaaag cgcaggctt ggcgaccgg
1602 560
E--> 1603 aacgtttcta ccgcagagtt gcaggatgcc acgcccgtg cgctggcgc acatgtgacc
1604 570
E--> 1605 tcgcgcaaat gctacggtcc gagcgcgacc agtggaaaat gtccggtaa cgctctggaa
1606 580
E--> 1607 aaaggcggaa aaggatcgat taccgaacag ctgcttaacg ctctgcccga cgttacgctt
1608 590
E--> 1609 ggcggcggcg caaaaacctt tgctgaaacg gcaaccgtg gtgaatggca gggaaaaacg
1610 600
E--> 1611 ctgcgtgaac aggcacaggc gcgtggttat cagttggtga gcgtatgtgc ctcactgaat
1612 610
E--> 1613 tcgggtacgg aagcgaatca gcaaaaaccc ctgcttggcc tttttgtga cggcaatatg
1614 620
E--> 1615 ccagtgcgt ggtaggacc gaaagcaacg taccatggca atatcgataa gcccgcagtc
1616 630
E--> 1617 acctgtacgc caaatccgca acgttaatgac agtgtaccaa ccctggcgc gatgaccgac
1618 640
E--> 1619 aaagccattg aattgtttag taaaaatgag aaaggcttt tcctgcaagt tgaagggtgc
1620 650
E--> 1621 tcaatcgata aacaggatca tgctgcgaat cttgtggc aaattggcga gacggtcgt
1622 660

Min

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 01/21/2002
TIME: 11:17:27

Input file : A:\237 sequence listing.asc
Output file: N:\CRF4\11212002\I661992A.raw

E--> 1623 ctcgatgaag ccgtacaacg ggcgctggaa ttgcgtaaaa aggaggtaa cacgctggc
1624 1626
E--> 1625 atagtcaccc ctgatcacgc ccacgccagc cagatttttgc cgccggatac caaagctccg
1626 1628
E--> 1627 ggcctcaccc aggcgtaaa taccaaagat ggcgcagtga tggatgttag ttacggAAC
1628 1640
E--> 1629 tccgaagagg attcacaaga acataccggc agtcagttgc gtattgcggc gtatggccc
1630 2100
E--> 1631 catggccca atgttgttgg actgaccgac cagaccgatc tcttctacac catgaaagcc
1632 2160
E--> 1633 gctctggggg atatcgacca ccatcaccat caccattaa
1634 2139
1785 <210> SEQ ID NO: 91
1786 <211> LENGTH: 978
1787 <212> TYPE: DNA
1788 <213> ORGANISM: Artificial Sequence
1789 <214> FEATURE:
1790 <215> OTHER INFORMATION: Description of the artificial sequence: scFv region
1791 <216> SEQUENCE: 91
E--> 1794 atgaaatacc tattgcctac ggcagccgtt ggattgttat tactcgccgc ccagccggcc
1795 60
E--> 1796 atggcggagg tgaagctggg ggagtctggg ggaggcttag tgaagcctgg agggccctg
1797 120
E--> 1798 aaactctct gtgcagccctc tggattcaact ttcagtagct ataccatgtc ttgggttcgc
1799 180
E--> 1800 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtatggngg tagttccacc
1801 240
E--> 1802 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1803 300
E--> 1804 ctgtacctgc aaatgagcag tctgaggctt gaggacacag ccatgttata ctgtacaaga
1805 360
E--> 1806 gaggggggtg gttcacccgt caactgggtac ttgcgtgtct ggggcgcagg aacctcagtc
1807 420
E--> 1808 accgtctctt caggtggagg cggttcagggt gggcgccct ctggcggtgg cggatccggac
1809 480
E--> 1810 attgtgctga cacagtncc agcttcttg gctgtgtctc tagggcagag ggccaccata
1811 540
E--> 1812 tcntgcagag ccagtgaaag tggatgtatgt tatggctata attttatgca ctggatcag
1813 600
E--> 1814 cagataccag gacagccacc caaactccctc atctatcgat catccaaacct agagtctgg
1815 660
E--> 1816 atccctgcca gttcacccgt cagttgggtct aggacagact tcaccctcac catataatcc
1817 720
E--> 1818 gtggaggctg atgatgttgc aacatttttac tgcagcaaa gtaatgagga tccgctca
1819 780
E--> 1820 ttccgttactg ggaccagact ggaaataaaa cggggggccg caccgaagcc ttccactcc
1821 840
E--> 1822 cccgggtctt cccgtatgaa acagctggaa gacaaagtag agggatcct tagcaagaac
1823 900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:55:11

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

E--> 1824 taccatctag aaaacgaggt agctcgctg aaaaagcttgggtgaacg tgggtggtcac
1825 960
E--> 1826 catcaccatc accattaa
1827 978
2101 <210> SEQ_ID_NUM: 18 *26.11.2*
2102 <211> LENGTH: 978
2103 <212> TYPE: DNA
2104 <213> ORGANISM: Artificial Sequence
2105 <220> FEATURE:
2106 <223> OTHER INFORMATION: Description of the artificial sequence:sifv redish
2107 <400> SEQUENCE: 98
E--> 2306 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgccgc ccagccggcc
2307 60
E--> 2308 atggccgagg tgaagctggg ggagtctggg ggaggcttag tgaagctgg agggtccttg
2309 120
E--> 2310 aaactctcct gtgcagccctc tggattcaact ttcatgtatc ataccatgtc ttgggttcgc
2311 180
E--> 2312 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtatggngg tagttccacc
2313 240 *6.11.2*
E--> 2314 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
2315 300
E--> 2316 ctgtacctgc aaatgagcag tctgaggtct gaggacacag ccatgttatta ctgtacaaga
2317 360
E--> 2318 gagggggtg gttcacccgt caactgggtac ttcatgtct gggcgccagg aacctcagtc
2319 420
E--> 2320 accgtctcct caggtggagg cggttcaggt gggcgccct ctggcggtgg cggatcggac
2321 480
E--> 2322 attgtgctga cacagtctcc agtttcttgc gctgtgtctc tagggcagag ggccaccata
2323 540
E--> 2324 tcctgcagag ccagtgaaag tggatgtatc tatggctata attttatgca ctggatcag
2325 600
E--> 2326 cagataccag gacagccacc caaactccctc atctatcgat catccaacct agagtctgg
2327 660
E--> 2328 atccctgcca gttcagtg cagtgggtct aggacagact tcaccctcac cattaatcct
2329 720
E--> 2330 gtggaggctg atgatgttgc aacattttac tgcagcaaa gtaatgagga tccgctcag
2331 780
E--> 2332 ttcggactg ggaccagact gaaaaaaa cgggcggcccg cagaacaaaa actcatctca
2333 840
E--> 2334 gaagaggatc tgaatggggc ggcacatcac catcaccatc actaataa
2335 883

See following pages for more entries

*No errors exist throughout
Please check all
similar errors.*

4/66/99.4 //

<210> 87
<211> 747
<212> DNA
<213> Artificial
Sequence

<220>
<223> Description of the artificial sequence: scFv
region

<400> 87
gaggtgcagc ttcaggagtc agggggaggc ttagtgaagc
ctggagggtc cctgaaactc 60
tcctgtgcag cctctggatt catttttagt agttatacca
tgtcttgggt tcgccagact 120
ccggagaaga gggtggagtg ggtcgcaacc attagtagtg
gtggtagttc cacctactat 180
ccagacagtg tgaagggccg attcaccatc tccagagaca
atgccaagaa caccctgtac 240
ctgcaaatga gcagtctgaa gtctgaggac acagccatgt
atcaactgtac aagagagggg 300
ggtggttatt acgtcaactg gtacttcgat gtctgggchg
caggcaccac tctcacagtc 360
tcctcaggtg gaggcggtc aggtgggcgc gcctctggcg
gtggcgatc ggacatttag 420
ctca~~q~~cagt ctccagcttc tttggctgtg tctctagggc
agaggccac catatcctgc 480
agagccagtg aaagtgttga tagttatggc aagagttta
tgcaactggta ccagcagaaa 540
ccagggcagc cacccaaact cctcatctat cgtgcaccca
acctagaatc tgggatccc 600
gccaggttca gtggcagtgg gtcttaggaca gacttcaccc
tcaccattaa tcctgtggag 660
gctgtatgtg ttgc~~q~~accta ttactgtcag caaagtaatg
aggatcccct cacgttcggt 720

be side
global "map"
clue
H's are not
spliced
↓
See p 13
for error
of later part

09/66/992A /2

<210> 88
<211> 249
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence: scFv
region

<400> 88
Glu Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys
Pro Gly Gly

1

5

10

all

15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe
Ser Ser Tyr 20

25

amino
acid

30

Sequence

shows the

initial described

in initial

Scor summary

sheet

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:16:17

Input File : A:\237 sequence listing.asc
Output File: N:\CRF4\11212002\I661992A.raw

File 49212002

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Sig#:47; N Pos. 425,433
Sig#:49; N Pos. 228
Seq#:81; N Pos. 125,481,543
Seq#:92; Xaa Pos. 166
Sig#:93; N Pos. 228
Seq#:103; Xaa Pos. 2,3,16,18

← This requires
I know the above is true

VERIFICATION SUMMARY

RECEIVED U.S. PATENT AND TRADEMARK OFFICE: US/09/661,992A

ANSWER TO THE CHIEF QUESTIONS

2020-01-01

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

L:~~1~~* M:~~2~~1 W: Mandate field data missing, <FILE> TITLE INVENTION
L:~~1~~* M:~~2~~1 W: Mandate field data missing, <FILE> FILE REFERENCE
L:~~1~~4 M:~~2~~1 E: Current Filing Date differs, F-replaced Current Filing Date
L:~~1~~4 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:26 SEQ:1
L:~~1~~4 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:26 SEQ:2
L:~~1~~5 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:24 SEQ:3
L:~~1~~6 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:4 SEQ:4
L:~~1~~7 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:1 Counted:1 SEQ:5
L:~~1~~8 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:6
L:~~1~~9 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:32
L:~~1~~0 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:53
L:~~1~~1 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:54
L:~~1~~2 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:55
L:~~1~~3 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:56
L:~~1~~4 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:57
L:~~1~~5 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:58
L:~~1~~6 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:56 SEQ:59
L:~~1~~7 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:60
M:~~2~~4 Repeated in SeqNo 60
L:~~1~~8 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:61
L:~~1~~9 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:62
L:~~1~~0 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:63
L:~~1~~1 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:64
L:~~1~~2 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:65
L:~~1~~3 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:66
L:~~1~~4 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:67
L:~~1~~5 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:68
L:~~1~~6 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:69
L:~~1~~7 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:70
L:~~1~~8 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:71
L:~~1~~9 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:72
L:~~1~~0 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:59 SEQ:73
L:~~1~~1 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:42 SEQ:74
L:~~1~~2 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:42 SEQ:75
L:~~1~~3 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:42 SEQ:76
L:~~1~~4 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:42 SEQ:77
L:~~1~~5 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:42 SEQ:78
M:~~2~~4 Repeated in SeqNo 79
L:~~1~~6 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:80
M:~~2~~4 Repeated in SeqNo 80
L:~~1~~7 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:81
M:~~2~~4 Repeated in SeqNo 81
L:~~1~~8 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:83
M:~~2~~4 Repeated in SeqNo 83
L:~~1~~9 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:85
M:~~2~~4 Repeated in SeqNo 85
L:~~1~~0 M:~~2~~4 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:87

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 11:15:17

Input Set : A:\237 sequence listing.asc
Output Set: N:\CRF4\11212002\I661992A.raw

M:254 Repeated in SeqNo=81

L:1451 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:81

L:1451 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:81

L:1451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:461

L:1451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:461

L:1451 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:61 SEQ:21

M:254 Repeated in SeqNo=81

L:1561 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:81

L:1561 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:81

L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:181

L:1794 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:61 SEQ:21

M:254 Repeated in SeqNo=91

L:1800 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:91

L:1800 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:91

L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:181

L:1810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:461

L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:541

L:1869 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:92

L:1869 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:92

L:1869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:160

L:2312 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:99

L:2312 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:99

L:2312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:180

L:2552 M:255 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:105

L:2552 M:256 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:105

L:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0